

Name: _____

Date: _____

Math Journal

Module 5

Lessons

1 - 30

Read:

Measure the length of your paper or math book using a ruler. Your teacher will tell you whether to measure in inches or centimeters.

Draw:**Write:**

- Which is a larger unit—an inch or a centimeter?
- Which would yield a greater number when measuring the book—inches or centimeters?
- Measure at least 2 different items with your partner, again using different units. What do you notice?

Change units with your partner. Measure different items again.

Read:

Anu needs to cut a piece of paper into 6 equal parts.

(Early finishers can do the same thing with halves, fourths, or eighths.)

Draw:

Draw at least 3 pictures to show how Anu can cut her paper so that all the parts are equal.

Write:

Read:

Marcos has a 1-liter jar of milk to share with his mother, father, and sister.

Draw:

Draw a picture to show how Marcos must share the milk so that everyone gets the same amount.

Write:

What fraction of the milk does each person get?

Read:

Mr. Ramos sliced an orange into 8 equal pieces. He ate 1 slice.

Draw:

Draw a picture to represent the 8 slices of an orange. Shade in the slice Mr. Ramos ate.

Write:

What fraction of the orange did Mr. Ramos eat? What fraction did he not eat?

Read:

Ms. Browne cut a 6-meter rope into 3 equal size pieces to make jump ropes. Mr. Ware cut a 5-meter rope into 3 equal size pieces to make jump ropes. Which class has longer jump ropes?

Draw:**Write:**

Read:

Chloe's dad partitions his garden into 4 equal-sized sections to plant tomatoes, squash, peppers, and cucumbers. What fraction of the garden is available for growing tomatoes?

Draw:**Write:**

Read:

Robert ate half of the applesauce in a container. He split the remaining applesauce equally into 2 bowls for his mother and sister. Robert said, "I ate 1 half, and each of you gets 1 half." Is Robert right?

Draw:

Draw a picture to prove your answer.

Write:

Read:

For breakfast, Mr. Schwartz spent $\frac{1}{6}$ of his money on a coffee and $\frac{1}{6}$ of his money on a bagel. What fraction of his money did Mr. Schwartz spend on breakfast?

Draw:**Write:**

Read:

Julianne's friendship bracelet had 8 beads. When it broke, the beads fell off. She could only find 1 bead. To fix her bracelet, what fraction of the beads does she need to buy?

Draw:**Write:**

Read:

Sarah makes soup. She divides each batch equally into thirds to give away. Each family that she makes soup for gets $\frac{1}{3}$ of a batch. Sarah needs to make enough soup for 5 families. How much soup does Sarah give away? Write your answer in terms of batches.

Draw:**Write:**

Read:

Rachel, Silvia, and Lola each received the same homework assignment and only completed part of it. Rachel completed $\frac{1}{6}$ of her homework, Silvia completed $\frac{1}{2}$ of her homework, and Lola completed $\frac{1}{4}$ of her homework. Write the amount of homework each girl completed from least to greatest.

Draw:

Draw a picture to prove your answer.

Write:

Write the amount of homework each girl completed from least to greatest.

Read:

Jennifer hid half of her birthday money in the dresser drawer. The other half she put in her jewelry box. If she hid \$8 in the drawer, how much money did she get for her birthday?

Draw:**Write:**

Read:

Davis wants to make a picture using 9 square tiles. What fraction of the picture does 1 tile represent?

Draw:

Draw 3 different ways Davis could make his picture.

Write:

Read:

Mr. Ray is knitting a scarf. He says that he has completed 1 fifth of the total length of the scarf.

Draw:

Draw a picture of the final scarf. Label what he has finished and what he still has to make. Draw a number bond with 2 parts to show the fraction he has made and the fraction he has not made.

Write:

Read:

In baseball, it is about 30 yards from home plate to first base. The batter got tagged out about halfway to first base. About how many yards from home plate was he when he got tagged out?

Draw:

Draw a number line to show the point where he was when he got tagged out.

Write:

Read:

Hannah bought 1 yard of ribbon to wrap 4 small presents. She wants to cut the ribbon into equal parts.

Draw:

Draw and label a number line from 0 yards to 1 yard to show where Hannah will cut the ribbon. Label all the fractions, including 0 fourths and 4 fourths. Also, label 0 yards and 1 yard.

Write:

Read:

Sammy sees a black line at the bottom of the pool stretching from one end to the other. She wonders how long it is. The black line is the same length as 9 concrete slabs that make the sidewalk at the edge of the pool. One concrete slab is 5 meters long. What is the length of the black line at the bottom of the pool?

Draw:**Write:**

Read:

Third grade students are growing peppers. The student with the longest pepper wins the Green Thumb award. Jackson's pepper measured 3 inches long. Drew's measured $10/4$ inches long. Who won the award?

Draw:

Draw a number line to help prove your answer.

Write:

Read:

Thomas has 2 sheets of paper. He wants to punch 4 equally spaced holes along the edge of each sheet.

Draw:

Draw Thomas' 2 sheets of paper next to each other so the ends meet. Label a number line from 0 at the start of his first paper to 2 at the end of his second paper. Show Thomas where to hole-punch his papers and label the fractions.

Write:

What fraction is labeled at the eighth hole?

Read:

Max ate $\frac{2}{3}$ of his pizza for lunch. He wanted to eat a small snack in the afternoon, so he cut the leftover pizza in half and ate 1 slice. How much of the pizza was left?

Draw:

Draw a picture to help you think about the pizza.

Write:

Read:

Dorothea is training to run a 2-mile race. She marks off her starting point and the finish line. To track her progress, she places a mark at 1 mile. She then places a mark halfway between her starting position and 1 mile, and another mark halfway between 1 mile and the finish line.

Draw:

Draw and label a number line to show the points Dorothea marks along her run.

Write:

- What fractional unit does Dorothea make as she marks the points on her run?
- What fraction of her run has she completed when she reaches the third marker?

Read:

Mr. Ramos wants to put a wire on the wall. He puts 9 nails equally spaced along the wire. Draw a number line representing the wire. Label it from 0 at the start of the wire to 1 at the end. Mark where Mr. Ramos puts each nail with a fraction.

Draw:

Draw a number line representing the wire. Label it from 0 at the start of the wire to 1 at the end. Mark where Mr. Ramos puts each nail with a fraction.

Build a number bond with unit fractions to 1 whole.

Write:

Write the fraction of the nail that is equivalent to $\frac{1}{2}$ of the wire.

Read:

Shannon stood at the end of a 100-meter long soccer field and kicked the ball to her teammate. She kicked it 20 meters. The commentator said she kicked it a quarter of the way down the field. Is that true? If not, what fraction should the commentator have said? Prove your answer by using a number line.

Draw:

Prove your answer by using a number line.

Write:

Read:

The zipper on Robert's jacket is 1 foot long. It breaks on the first day of winter. He can only zip it $\frac{8}{12}$ of the way before it gets stuck. Draw and label a number line to show how far Robert can zip his jacket. Divide and label the number line in thirds. What fraction of the way can he zip his jacket in thirds? What fraction of Robert's jacket is not zipped? Write your answer in twelfths and thirds.

Draw:

Draw and label a number line to show how far Robert can zip his jacket. Divide and label the number line in thirds.

Write:

What fraction of the way can he zip his jacket in thirds? What fraction of Robert's jacket is not zipped? Write your answer in twelfths and thirds.

Read:

Lincoln drinks 1 eighth gallon of milk every morning.

How many days will it take Lincoln to drink 1 gallon of milk? Use a number line and words to explain your answer.

How many days will it take Lincoln to drink 2 gallons? Extend your number line to show 2 gallons and use words to explain your answer.

Draw:

Use a number line and words to explain your answer.

Extend your number line to show 2 gallons.

Write:

How many days will it take Lincoln to drink 2 gallons? Use words to explain your answer.

Read:

Antonio works on his project for 4 thirds hours. His mom tells him that he must spend another 2 thirds of an hour on it. Draw a number bond and number line with copies of thirds to show how long Antonio needs to work altogether. Write the amount of time Antonio needs to work altogether as a whole number.

Draw:

Draw a number bond and number line with copies of thirds to show how long Antonio needs to work altogether.

Write:

Write the amount of time Antonio needs to work altogether as a whole number.

Read:

The branch of a tree is 2 meters long. Monica chops the branch for firewood. She cuts pieces that are $\frac{1}{4}$ meter long. Draw a number line to show the total length of the branch.

Partition and label each of Monica's cuts.

How many pieces does Monica have altogether?

Write 2 equivalent fractions to describe the total length of Monica's branch.

Draw:

Draw a number line to show the total length of the branch. Partition and label each of Monica's cuts.

Write:

How many pieces does Monica have altogether?

Write 2 equivalent fractions to describe the total length of Monica's branch.

Read:

LaTonya has 2 equal-sized hotdogs. She cut the first one into thirds at lunch. Later, she cut the second hotdog to make double the number of pieces. Draw a model of LaTonya's hotdogs. How many pieces is the second hotdog cut into? If she wants to eat $\frac{2}{3}$ of the second hotdog, how many pieces should she eat?

Draw:

Draw a model of LaTonya's hotdogs.

Write:

How many pieces is the second hotdog cut into? If she wants to eat $\frac{2}{3}$ of the second hotdog, how many pieces should she eat?

Read:

Catherine and Diana buy matching scrapbooks. Catherine decorates $\frac{5}{9}$ of the pages in her book. Diana decorates $\frac{5}{6}$ of the pages in her book. Who has decorated more pages of her scrapbook? Draw a picture to support your answer.

Draw:

Draw a picture to support your answer.

Write:

Who has decorated more pages of her scrapbook?
